This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

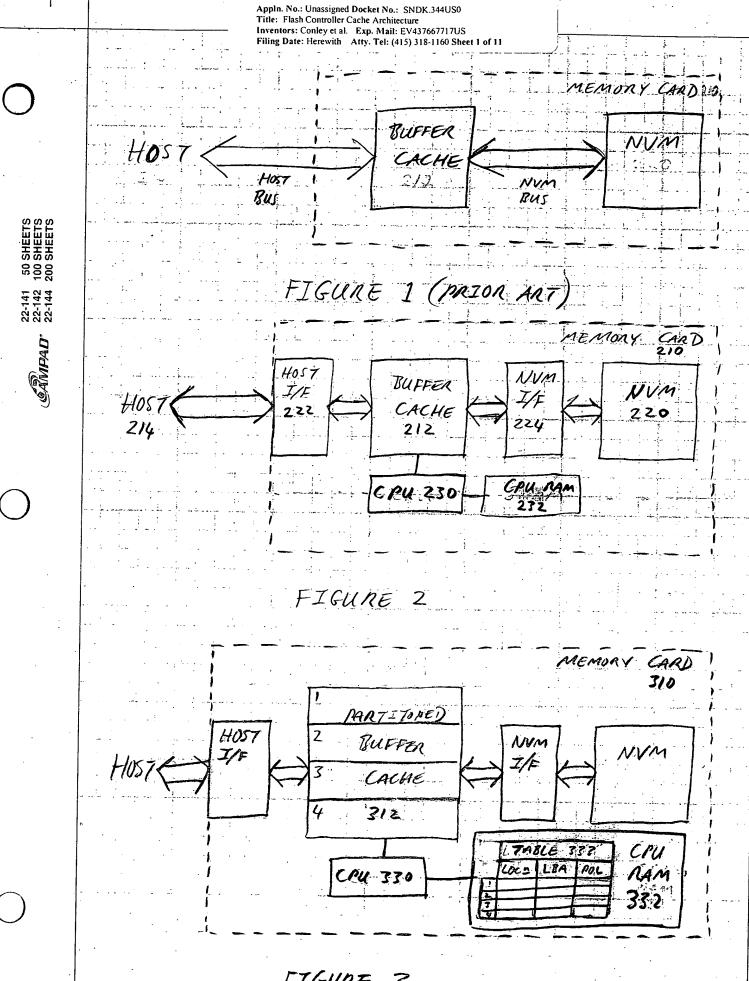
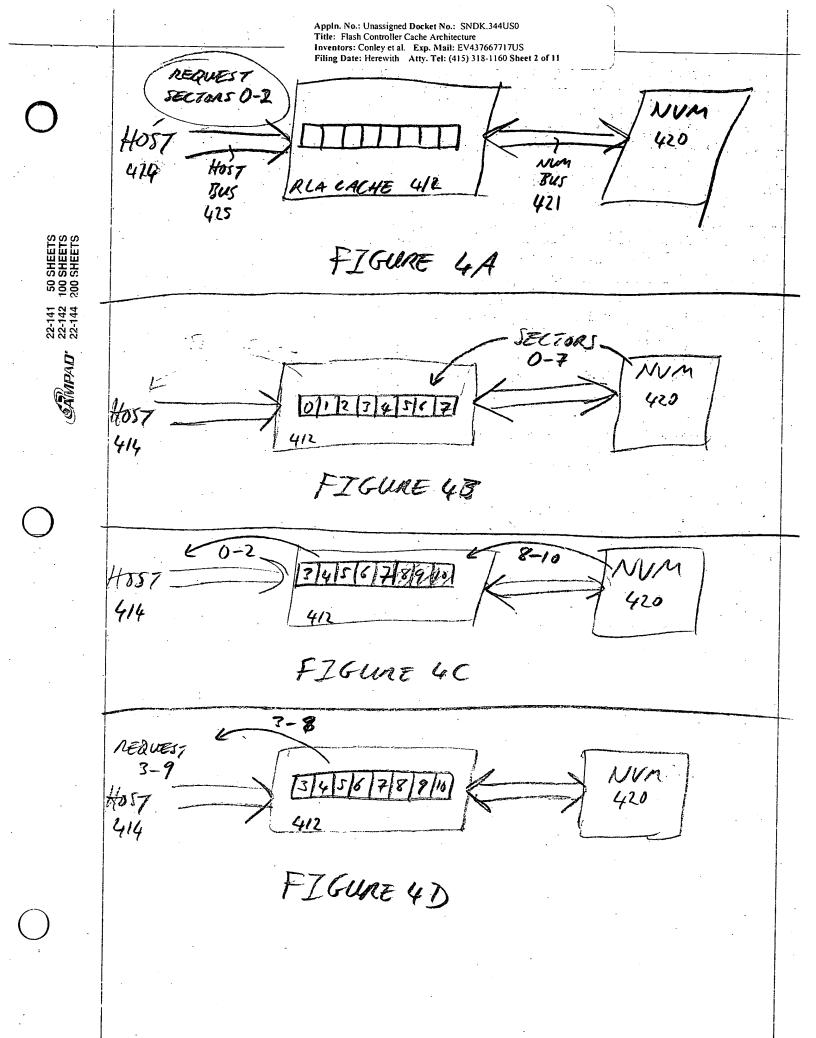


FIGURE 3



Appln. No.: Unassigned Docket No.: SNDK.344US0
Title: Flash Controller Cache Architecture
Inventors: Conley et al. Exp. Mail: EV437667717US
Filing Date: Herewith Atty. Tel: (415) 318-1160 Sheet 3 of 11

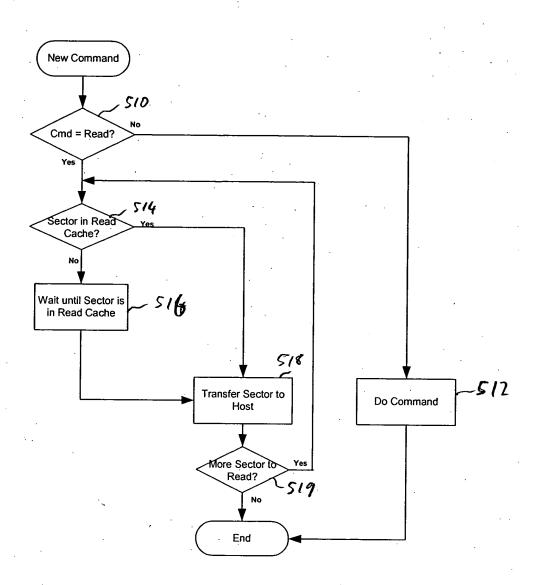


FIGURE 5 HOST COMMAND HANDLING PROCESS

Appln. No.: Unassigned Docket No.: SNDK.344US0
Title: Flash Controller Cache Architecture
Inventors: Conley et al. Exp. Mail: EV437667717US
Filing Date: Herewith Atty. Tel: (415) 318-1160 Sheet 4 of 11

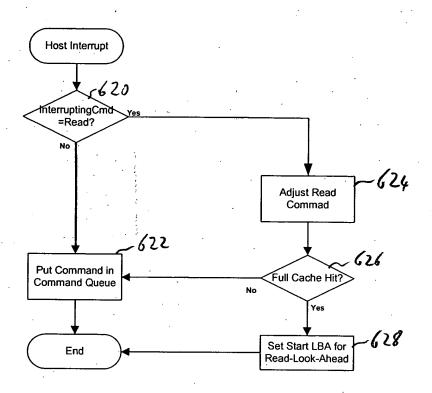


FIGURE 6A HOST INTERRUPT PROCESS

Appln. No.: Unassigned Docket No.: SNDK.344US0
Title: Flash Controller Cache Architecture
Inventors: Conley et al. Exp. Mail: EV437667717US
Filing Date: Herewith Atty. Tel: (415) 318-1160 Sheet 5 of 11

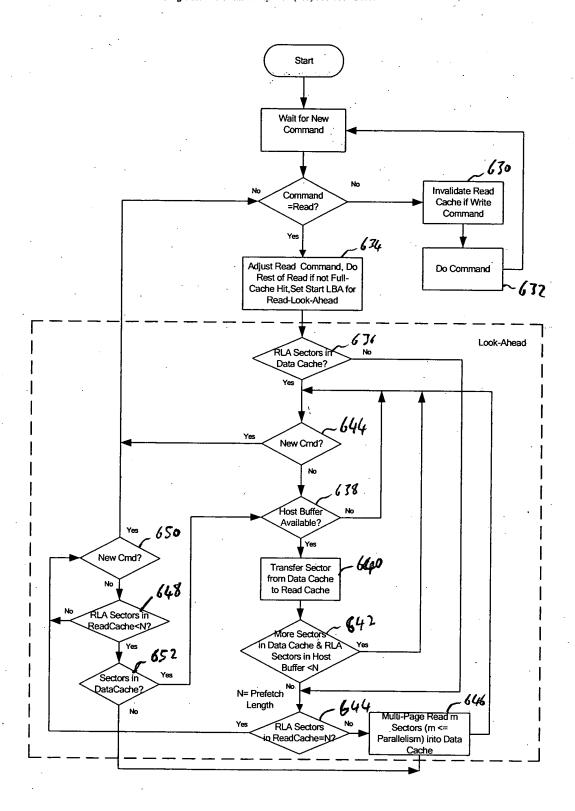


FIGURE 6B FLASH ACCESS MANAGEMENT PROCESS FLOW

Appln. No.: Unassigned Docket No.: SNDK.344US0
Title: Flash Controller Cache Architecture
Inventors: Conley et al. Exp. Mail: EV437667717US
Filing Date: Herewith Atty. Tel: (415) 318-1160 Sheet 6 of 11

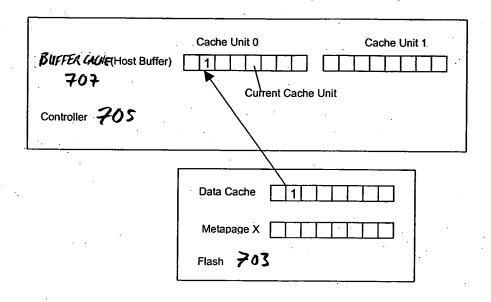


Figure 7 Cache configuration

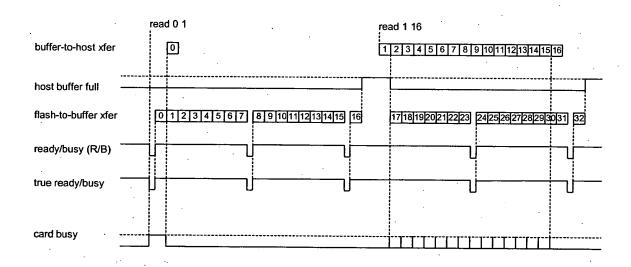


Figure 8A Cache hit

Appln. No.: Unassigned Docket No.: SNDK.344US0
Title: Flash Controller Cache Architecture
Inventors: Conley et al. Exp. Mail: EV437667717US
Filing Date: Herewith Atty. Tel: (415) 318-1160 Sheet 7 of 11

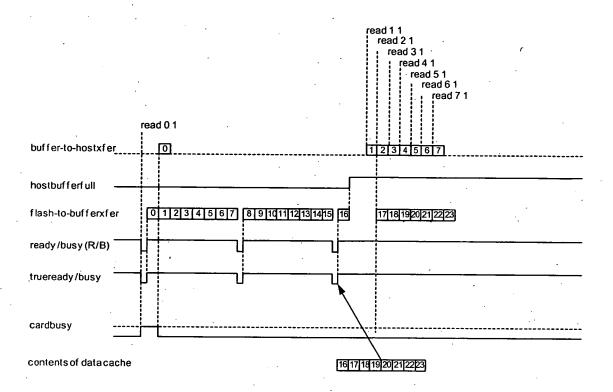


Figure 8B Cache hit

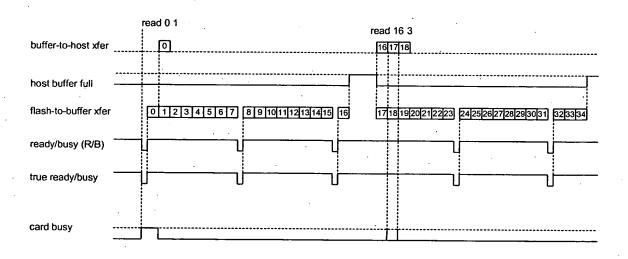


Figure 8C Partial hit

Appln. No.: Unassigned Docket No.: SNDK.344US0
Title: Flash Controller Cache Architecture
Inventors: Conley et al. Exp. Mail: EV437667717US
Filing Date: Herewith Atty. Tel: (415) 318-1160 Sheet 8 of 11

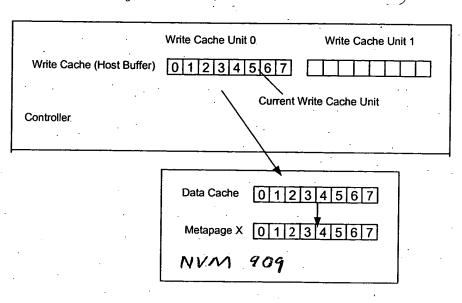


Figure 9

Appln. No.: Unassigned Docket No.: SNDK.344US0
Title: Flash Controller Cache Architecture
Inventors: Conley et al. Exp. Mail: EV437667717US
Filing Date: Herewith Atty. Tel: (415) 318-1160 Sheet 9 of 11

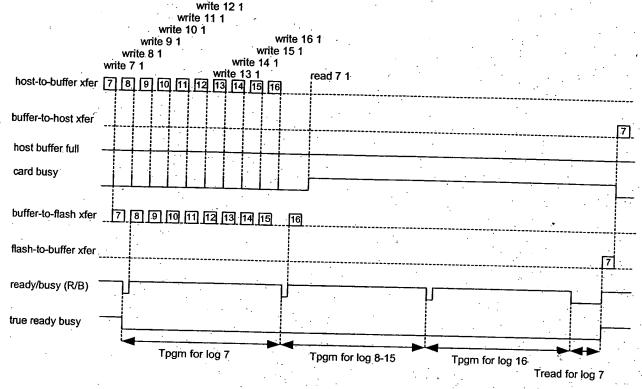
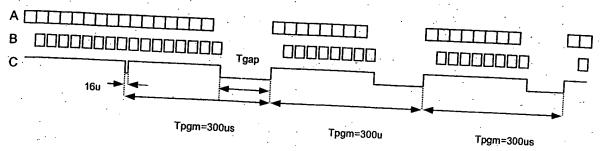


FIGURE 10

3

Appln. No.: Unassigned Docket No.: SNDK.344US0
Title: Flash Controller Cache Architecture
Inventors: Conley et al. Exp. Mail: EV437667717US
Filing Date: Herewith Atty. Tel: (415) 318-1160 Sheet 10 of 11



A= Host-to-Buffer Xfer, B= Buffer-to-Flash Xfer, C=Cache Busy(=R/B)
Tgap = Txfer_flash+Tpgm-(8*Txfer_host)
Flash command sequence= 80h11h...80h11h...80h15h72h

FIGURE 11

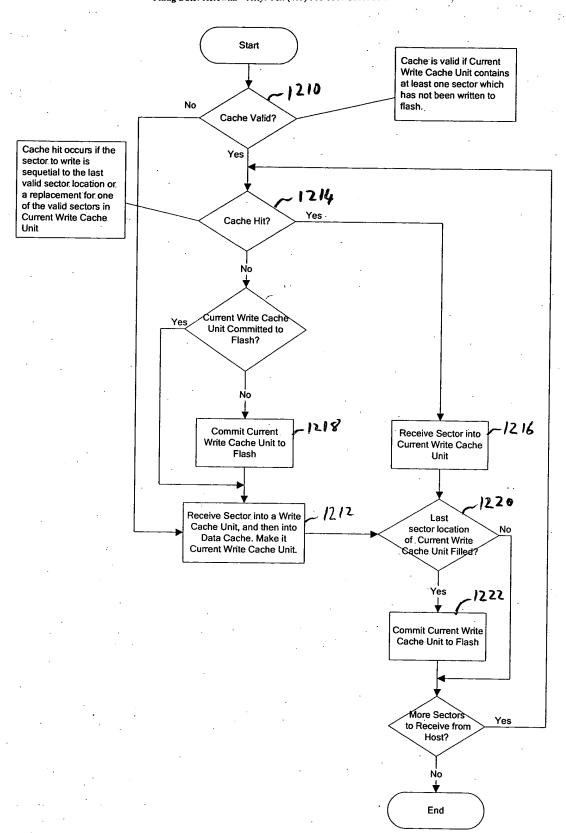


FIG. 12